

# FRA2

## CyrusOne Data Center

📍 Leonhard-Heiwolf-Str. 4 65936,  
Frankfurt am Main, Germany



### Introduction

CyrusOne FRA2 is a brand new purpose-built data center offering cloud providers, systems integrators and multinational corporations customised, secure and resilient data center solutions within a key business hub.

The facility is strategically located in Sossenheim, the preferred location for data centers in Frankfurt, Germany's "Digital City". It sits adjacent to CyrusOne FRA1, delivering 17.62 MW of IT power to 8,756 sq m (94,249 sq ft) of world-class technical space, with each data suite customised to individual client specifications.





## Overview

- 17.62 MW of IT power delivered to 8,756 sq m (94,249 sq ft) of world-class technical space
- Active / Active 110 kV dual redundant power supplies with fully flexible IT power solutions
- Connection to the European high voltage grid via two independent substations
- Ultra-low PUE through the use of Indirect Adiabatic Air Cooling to each data hall
- Highly resilient, concurrently maintainable power and cooling to Tier III+
- Carrier neutral access and diverse fibre connectivity to active A&B Meet Me Rooms from multiple telecommunication providers
- Bespoke and scalable data halls
- Multilayer industry-leading levels of physical and electronic security



## Technical Specifications

### BUILDING

- 8,756 sq m (94,249 sq ft) of technical space within one building over five floors
- Floor loading 12 kN per sq m
- Delivery bay with access to two 3-tonne goods lifts
- Bespoke and scalable data halls
- Dedicated offices, buildroom and/or ancillary space adjacent to each hall, built to your requirements
- On-site electric vehicle charging points

### POWER

- Operated with 17.62 MW of IT power
- Active / Active 110 kV dual redundant power supplies with fully flexible IT power solutions
- Connection to the European high voltage grid via two independent substations
- N+N power solutions dedicated to each hall
- Minimum N+N UPS with 10-minute battery back-up as standard
- Fully rated N+1 MV back-up generators with 48-hour fuel autonomy at full load, capable of continuous running
- Re-fueling contracts in place to ensure timely replacement
- All IT power metered and charged as consumed at dedicated MV meters

### COOLING

- N+1 Indirect Adiabatic Air Cooling to each data hall resulting in ultra-low PUE
- Cooling infrastructure individually managed and linked to BMS
- Independently regulated temperature and humidity to each space utilising hot aisle containment
- A&B Power Supplies to cooling equipment for full redundancy (local ATS's)

- Highly resilient, concurrently maintainable power and cooling to Tier III+
- 1,300 mm return air plenum with 3000 mm clear height in the data hall

### CONNECTIVITY

- Carrier neutral access and diverse fibre connectivity to active A&B Meet Me Rooms from multiple telecommunication providers including euNet works, BT, Cogent, Colt, Deutsche Telekom, CenturyLink and Verizon
- IBM Cloud on-ramp available onsite
- Access to DE-CIX, the world's largest Internet Exchange
- Strict cable management policy

### ENERGY EFFICIENCY

- Ultra-low PUE through the use of Indirect Adiabatic Air Cooling to each data hall with free cooling capacity
- Scalable UPS capable of ECO and sequence modes
- Variable speed drive adiabatic fans
- ASHRAE T9 hall conditions
- Air cooled plant rooms with variable speed fans
- Rainwater recovery for reduced water usage

### FIRE DETECTION AND SUPPRESSION

- Three stage fire detection systems into data halls and UPS plant areas
- VESDA (Very Early Smoke Detection Apparatus) in data halls and UPS plant rooms for early warning
- Fire detection in all rooms, ceiling return air plenums and in voids as required
- Gas suppression to data halls and UPS rooms with dedicated bottles
- Double knock approach gas suppression to all areas, single zone activation
- Fire detection and suppression systems interconnected to central BMS



## SECURITY

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- High security perimeter fence
- External CCTV and Geoquip trembler wire to fence
- Vehicle lock to each site entrance with dual gates and and physical ram protection
- 24/7 year round on-site security located in secure control room
- Extensive CCTV and access control throughout the facility
- Progressive layers of security to restrict access through the site
- Mantraps with biometric readers into data halls can be provided if required

## BUILDING AND ENERGY MANAGEMENT SYSTEMS (BMS & EMS)

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- Power and building monitoring systems to provide alarms
- Power surge management
- 24/7 year round on-site M&E engineers undertaking Planned Preventative Maintenance (PPM) programmes
- Real-time monitoring of electrical and mechanical systems systems

## COMPLIANCE (OPERATED TO INTERNATIONAL STANDARDS)

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- ISO 14001 Environmental Management
- ISO 27001 Information Security Management
- ISO 9001 Quality Management
- ISO 50001 Energy Management

Floor Plan

